FOREIGN PATENT DOCUMENTS  FOREIGN PATENT DOCUMENTS  FOREIGN PATENT DOCUMENTS  Trestiding Type Type Type Type Type Type Type Type							Docket Number (Optional) 03226.065001	Application Number			
U.S. PATENT DOCUMENTS  DATE  CLASS  SURCLASS  Translation  FOREIGN PATENT DOCUMENTS  EEF  DOCUMENT NUMBER  DATE  CONTRY  CLASS  SURCLASS  Translation  YES  NO  OTHER DOCUMENTS  OTHER DOCUMENTS  (Including Author, Tide, Date, Perlinent Pages, Etc.)  UTHER DOCUMENTS  (Including Author, Tide, Date, Perlinent Pages, Etc.)  THE ET Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 244-291; "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J.  EXAMINER  DATE CONSIDERED  (2. 3) DLy  EXAMINER DATE CONSIDERED  (2. 3) DLy  EXAMINER DATE CONSIDERED  (2. 3) DLy  EXAMINER DATE CONSIDERED  (2. 3) DLy  EXAMINER DATE CONSIDERED  (2. 3) DLy  EXAMINER DATE CONSIDERED  (2. 3) DLy  EXAMINER DATE CONSIDERED  (2. 3) DLy  EXAMINER DATE CONSIDERED  (2. 3) DLy  EXAMINER DATE CONSIDERED  (2. 3) DLy  EXAMINER DATE CONSIDERED  (2. 3) DLy  EXAMINER DATE CONSIDERED  (2. 3) DLy  EXAMINER DATE CONSIDERED  (2. 3) DLy  EXAMINER DATE CONSIDERED  (3. 2) DLY  EXAMINER DATE CONSIDERED  (4. 2. 3) DLY  EXAMINER DATE CONSIDERED  (5. 2. 3) DLY  EXAMINER DATE CONSIDERED  (5. 2. 3) DLY  EXAMINER DATE CONSIDERED  (6. 2. 3) DLY		INFO				Applicant(s) Claude R. Gauthier et al.					
ANAMER REF DOCUMENT NUMBER DATE NAME CLASS SUBCLASS SUBCL			•	-		. 8 <del>.</del> .	=	:001	Group Art Unit		
FOREIGN PATENT DOCUMENTS  FOREIGN PATENT DOCUMENTS  FOREIGN PATENT DOCUMENTS  COUNTRY  CLASS SUBCLASS Translative TYS NO.  DATE COUNTRY  CLASS SUBCLASS Translative TYS NO.  OTHER DOCUMENTS  (Including Author, Title, Date, Pertinent Pages, Ele.) Whetheology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forethand, T. J. Peter Translations on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291; "Power Distribution System Design of Power Distribution Systems of High Performance Microprocessors", Dennis J. Herrell and Brajamin Beker.  EXAMINER  DATE CONSIDERED  (2 2 3 DL  EXAMINER DATE CONSIDERED  (2 2 3 DL  EXAMINER Ligital If citation considered whether is not citation is in conformance with MPEP Section 609; Draw line through distation if not in conformance and the part of the processor of the part of the pa				<del></del>		U.S. PAT	ENT DOCUMENTS			916	<b>*</b>
REF DOCUMENT NUMBER DATE COUNTRY  CLASS SURCLASS Translation YES NO  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 280-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and	EXAMINER INITIAL	REF		DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	990	20c
REF DOCUMENT NUMBER DATE COUNTRY  CLASS SURCLASS Translation YES NO  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 280-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and										710	
REF DOCUMENT NUMBER DATE COUNTRY  CLASS SURCLASS Translation YES NO  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 280-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and											
REF DOCUMENT NUMBER DATE COUNTRY  CLASS SURCLASS Translation YES NO  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 280-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and											
REF DOCUMENT NUMBER DATE COUNTRY  CLASS SURCLASS Translation YES NO  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 280-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and			1								
REF DOCUMENT NUMBER DATE COUNTRY  CLASS SURCLASS Translation YES NO  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 280-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and											
REF DOCUMENT NUMBER DATE COUNTRY  CLASS SURCLASS Translation YES NO  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 280-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and											
REF DOCUMENT NUMBER DATE COUNTRY  CLASS SURCLASS Translation YES NO  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 280-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and		1									
REF DOCUMENT NUMBER DATE COUNTRY  CLASS SURCLASS Translation YES NO  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 280-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and			<b></b>								
REF DOCUMENT NUMBER DATE COUNTRY  CLASS SURCLASS Translation YES NO  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 280-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and											
REF DOCUMENT NUMBER DATE COUNTRY  CLASS SURCLASS Translation YES NO  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 280-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and		1									
REF DOCUMENT NUMBER DATE COUNTRY  CLASS SURCLASS Translation YES NO  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 280-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and			<u> </u>								
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 240-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether pr not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and		J	<u> </u>		. 1	FOREIG	N PATENT DOCUMENT	rs			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 240-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  EXAMINER: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and		REF		DOCUMENT NUMBER DATE		COUNTRY			SUBCLASS		
IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 240-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  DATE CONSIDERED  DATE CONSIDERED  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and			T								
IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 240-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  DATE CONSIDERED  DATE CONSIDERED  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and			<del>                                     </del>								
IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 240-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  DATE CONSIDERED  DATE CONSIDERED  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and		<del> </del>	$\dagger$								
IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 240-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  DATE CONSIDERED  DATE CONSIDERED  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and		-	-								
IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 240-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  DATE CONSIDERED  DATE CONSIDERED  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and			1								
IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 284-291: "Power Distribution System Design Methodology and Capacitor Selection for Modern CMOS Technology", L. D. Smith, R. E. Anderson, D. W. Forehand, T. J. Pelc and T. Roy.  IEEE Transactions on Advanced Packaging, August 1999, Vol. 22, No. 3, pages 240-248: "Modeling of Power Distribution Systems for High Performance Microprocessors", Dennis J. Herrell and Benjamin Beker.  DATE CONSIDERED  DATE CONSIDERED  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and		1	l	· ·		OTHER	DOCUMENTS (Includ	ing Author, Titl	le, Date, Pertinent P	ages, Etc.)	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and	Kra	~	A1			iging, Augi or Modern	st 1999, Vol. 22, No. 3, CMOS Technology", I	pages 284-291 . D. Smith, R	l: "Power Distril . E. Anderson, D.	oution Sys W. Foreh	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and	M2	N	A2	IEEE Transactions on Systems for High Perf							tribution
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and					7	-	<b>1</b>			<u> </u>	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and	EXAMIN	ER	<u> </u>	Whan	2/2		DATE CONSIDERED	123/0	4		
are remineral, sustant sale at succession that remineral properties at the sale of the sal	EXAMIN not consid	ER: Ini dered. I	tial if	citation considered, whether	r or not citation is	in conforma o applicant.	nce with MPEP Section 6	09; Draw line ti	rough citation if n	ot in confor	mance and

"Resonance and Damping in CMOS Circuits with On-Chip Decoupling Capacitance" as published in IEEE TRANSACTIONS on CIRCUITS AND SYSTEMS-I: Fundamental Theory and Applications Author: Patrik Larsson Volume 45, No. 8, August 1998 (pages 849-858)

EXAMINER

Kyhang In

DATE CONSIDERED

6/24/04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Best Available Copy

			e several sheets if necess	BAN MILE	THE THE	FILING March 28, 20	i i	ROUP 2	123	
				DATE	AND AND S. PATENT	DOCUMENTS				
AMINER TIAL		DOCUMENT NUMBER		DATE		NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
							P	ECEN	/ED	
	( A( )							AUG 2 8	•	
							Tec!	nology Ce	nter 2100	)
			8-1-7-11							
<u> </u>										
	<u> </u>	<u> </u>		FOR	REIGN PATE	NT DOCUMENTS		<u> </u>		
			DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANS YES	NO
-									,	_
		-			-					
										<u> </u>
Krgv		B1	Author: Patrik Larss (pages 574-576)	in an MOS Tran JOURNAL OF S on	sistor Used SOLID-STA	r, Title, Date, Pertiner as On-Chip Decoupling TE CIRCUITS, Vol. 32,	Capacitance'' No. 4, April 19			
Ma	W -	B2	"Power Supply Noise as published in IEEE Author: P. Larsson (pages 467-474)	In Future IC's: 1999 CUSTOM	A Crystal E INTEGRA	Ball Reading" FED CIRCUITS CONFE	CRENCE			
(AMIN	ER	$\frac{1}{\lambda}$	Mhanes	1		DATE CONSIDERED	6/23/0	4		

Form PTO-A820 (also form PTO-1449)

P09C/REV03

Patent and Trademark Office \* U.S. DEPARTMENT OF COMMERCE